

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) An AC/DC or DC/DC adapter for providing DC power via at least one power line to a portable electronic device, said adapter comprising circuitry to generate capable of generating an identification signal proportional to a maximum adapter current available from said adapter, said circuitry is further capable of changing said identification signal in response to changes in available adapter current.
2. (previously presented) An AC/DC or DC/DC adapter as claimed in claim 1, said circuitry comprising a current limit encoder generating said identification signal.
3. (previously presented) An AC/DC or DC/DC adapter as claimed in claim 1, said circuitry comprising an identification resistor coupled to a positive adapter voltage.
4. (previously presented) An AC/DC or DC/DC adapter as claimed in claim 1, said circuitry comprising an identification resistor coupled to a negative adapter voltage.
5. (previously presented) An AC/DC or DC/DC adapter as claimed in claim 1, said circuitry comprising a current sense resistor coupled to a positive adapter voltage and a current sense

comparator coupled to said current sense resistor, said current sense comparator having a set upper gain and generating a normalized value of said identification signal.

6. (currently amended) ~~An adapter topology~~ A system, comprising: an AC/DC or DC/DC adapter comprising circuitry ~~to generate~~ capable of generating an identification signal proportional to a maximum adapter current available from said adapter, said circuitry is further capable of changing said identification signal in response to changes in available adapter current; and a portable electronic device adapted to receive power from said adapter via at least one power line and to receive said identification signal from said adapter.

7. (currently amended) ~~An adapter topology~~ The system as claimed in claim 6, said circuitry comprising a current limit encoder generating said identification signal; said portable electronic device comprising a current limit decoder receiving said identification signal and generating a voltage proportional to said maximum adapter current.

8. (currently amended) ~~An adapter topology~~ The system as claimed in claim 7, said current limit decoder comprising a keyboard controller, said keyboard controller generating SMBus commands to a digital to analog circuit to generate said voltage proportional to said maximum adapter current.

9. (currently amended) ~~An adapter topology~~ The system as claimed in claim 6, said circuitry comprising an identification resistor coupled to a positive adapter voltage; said portable electronic device comprising a reference resistor coupled between said identification resistor and

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ground thereby forming a voltage divider generating a voltage proportional to said maximum adapter current.

10. (currently amended) ~~An adapter topology~~ The system as claimed in claim 6, said circuitry comprising an identification resistor coupled to a negative adapter voltage; said portable electronic device comprising a reference resistor coupled between said identification resistor and a reference voltage thereby forming a voltage divider generating a voltage proportional to said maximum adapter current.

11. (currently amended) ~~An adapter topology~~ The system as claimed in claim 6, said circuitry comprising a current sense resistor coupled to a positive adapter voltage and a current sense comparator coupled to said current sense resistor, said current sense comparator having a set upper gain and generating a normalized value of said identification signal; said portable electronic device comprising a resistor coupled between said identification signal and ground thereby generating a voltage representing a percentage that an actual current is with respect to the maximum adapter current.

12. (currently amended) ~~An adapter topology~~ The system as claimed in claim 6, said current limit decoder comprising a keyboard controller, said keyboard controller generating SMBus commands to a multiplexed digital to analog converter through an SMBus programmable interface, said multiplexed digital to analog converter generating an analog signal proportional to the maximum adapter current.

13. (currently amended) A portable electronic device, comprising: circuitry coupled to an AC/DC or DC/DC adapter, said circuitry is configured to receive an identification signal proportional to a maximum adapter current supplied to said portable electronic device and a charger controller by an AC/DC or DC/DC adapter said circuitry is further configured to generate a voltage signal proportional to said identification signal, said circuitry is further configured to change said voltage signal in response to changes in available current provided by said AC/DC or DC/DC adapter.

14. (currently amended) A portable electronic device as claimed in claim 13, said circuitry comprising a current limit decoder receiving a coded signal indicative of said identification signal and generating a the voltage proportional to said maximum adapter current of said AC/DC or DC/DC adapter supplying power to said portable electronic device.

15. (previously presented) A portable electronic device as claimed in claim 14, said current limit decoder comprising a keyboard controller, said keyboard controller generating SMBus commands to a digital to analog circuit to generate said voltage proportional to said maximum adapter current.

16. (currently amended) A portable electronic device as claimed in claim 13, said circuitry comprising a reference resistor coupled between said identification signal and ground generating a the voltage proportional to said maximum adapter current of said AC/DC or DC/DC adapter supplying power to said portable electronic device.

17. (currently amended) A portable electronic device as claimed in claim 13, said circuitry comprising a reference resistor coupled between said identification signal and a reference voltage, and generating a the voltage proportional to said maximum adapter current of said AC/DC or DC/DC adapter supplying power to said portable electronic device.

18. (currently amended) A portable electronic device as claimed in claim 13, said identification signal comprising a normalized signal; said circuitry comprising a resistor coupled between said normalized signal and ground thereby generating a the voltage representing a percentage that an actual current supplied to said portable electronic device is with respect to the maximum adapter current.

19. (previously presented) A portable electronic device as claimed in claim 14, said current limit decoder comprising a keyboard controller, said keyboard controller generating SMBus commands to a multiplexed digital to analog converter through an SMBus programmable interface, said multiplexed digital to analog converter generating an analog signal proportional to the maximum current supplied to said portable electronic device.